

ARRAY LISTS

Arrays

Disadvantage:

- ↳ Fixed Size Elements
- ↳ Size should be known in advance.

ArrayList

- ↳ Dynamic Size.
- ↳ Size is not required while ArrayList.

increasing size. →

Array =

1	2	3	4
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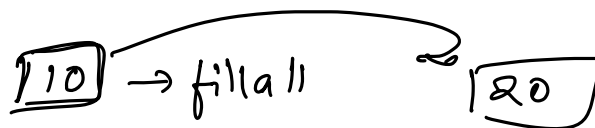
 n=4

add → 5

=

1	2	3	4	5
---	---	---	---	---

 →



Examples :-

- 1) Shopping card
- 2) tabs in browser
- 3) Playlist

Syntax

→

ArrayList	< Type >
-----------	----------

 arr = new

ArrayList	< Type >
-----------	----------

 ();

↓ ↓ ↓ ↓

class Datatype variable name

→ Type → Cannot any primitive type

int, double, float

↳ Objects / Wrapper class.

int → Integer

double → Double

} → wrapper
which ArrayList.

Class Student {

String name;

int roll;

double perc;

}

Class Integer {

int a;

func() ? parse()

func() ?

↳ wrapper class.

Class ArrayList

int[] array;

Type [] arr;

set()

remove()

add()

Basic Operation ArrayList

↳ add()

↳ get()

↳ size()

↳ remove()

↳ set()

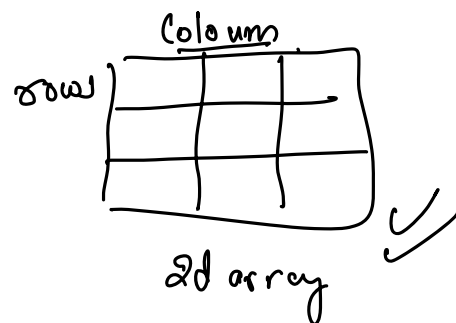
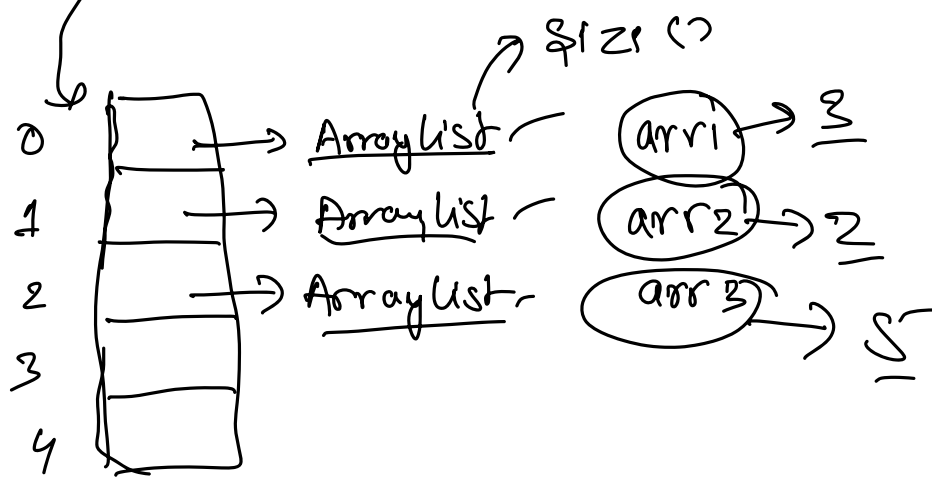
2D ArrayList

ArrayList

< ArrayList < Type > >

arr = new ArrayList <

ArrayList<Type>() ;



if ArrayList can have different column size ??

ArrayList < ArrayList < Integer > > arr;

arr.add(a1)

arr.add(a2)

ArrayList a1 = new ArrayList

ArrayList a2

-
- 1) add
 - 2) Get
 - 3) size
 - 4) Remove
 - 5) Set

